Mr. Joseph H. Snyder
Aluminum Company of America - Lafayette Operations
3131 East Main Street, P.O. Box 7500
Lafayette, IN 47903-7500

Re: 157-11505
First Minor Permit Modification to
Part 70 No.: T 157-7101-00001

Dear Mr. Snyder:

Aluminum Company of America - Lafayette Operations was issued a permit on March 18, 1999 for a secondary aluminum production facility. A letter requesting changes to this permit was received on October 22, 1999. Pursuant to the provisions of 326 IAC 2-7-12 a minor permit modification to this permit is hereby approved as described in the attached Technical Support Document.

The modification consists of the addition of four rotoclones. These rotoclones are insignificant activities. Section A.3 of the permit will be revised to add the following:

(22) four (4) Rotoclones, which are mechanical separating devices designed to capture particulate emissions from the sawing, grinding, and working of aluminum pieces. Two rotoclones, one rated at 4000 cfm and the other rated at 1500 cfm, will be installed in extrusion 1. Two rotoclones, each rated at 15,000 cfm, will be installed in extrusion 2.

Section D.12 of the permit will be revised to add the following:

SECTION D.12 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]	Insignificant Activities
g)	**four (4) Rotoclones, which are mechanical separating devices designed to capture particulate emissions from the sawing, grinding, and working of aluminum pieces. Two rotoclones, one rated at 4000 cfm and the other rated at 1500 cfm, will be installed in extrusion 1. Two rotoclones, each rated at 15,000 cfm, will be installed in extrusion 2.**

All other conditions of the permit shall remain unchanged and in effect. Please attach a copy of this modification and the following revised permit pages to the front of the original permit.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Nisha Sizemore, OAM, 100 North Senate Avenue, P.O. Box 6015, Indianapolis, Indiana, 46206-6015, or call at (800) 451-6027, press 0 and ask for Nisha Sizemore or extension 2-8356, or dial (317) 232-8356.

Sincerely,

Paul Dubenetzky, Chief
Permits Branch
Office of Air Management

Attachments
nls
cc: File - Tippecanoe County
U.S. EPA, Region V
Tippecanoe County Health Department
Air Compliance Section Inspector - Eric Courtright
Compliance Data Section - Karen Nowak
Administrative and Development - Janet Mobley
Technical Support and Modeling - Michele Boner

PART 70 OPERATING PERMIT
and ENHANCED NEW SOURCE REVIEW
OFFICE OF AIR MANAGEMENT

Aluminum Company of America - Lafayette Operation
3131 Main Street
Lafayette, Indiana 47905

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 and 326 IAC 2-1-3.2 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T157-7101-00001	
Issued by: Janet G. McCabe, Assistant Commissioner Office of Air Management	Issuance Date: March 18, 1999

First Minor Permit Modification: T157-11505-00001	Pages Affected: 11 and 59
Issued by: Paul Dubentzky, Chief Office of Air Management	Issuance Date:

(10) “622" filter boxes for transferring metal from 2-6 tilting-melting-holding furnace to #15 casting pit, used for adding argon and chlorine, with a maximum heat input capacity of 0.8 million Btu per hour;

(11) the north skim cooling enclosure, referred to as emission unit 16, with emissions exhausting to stack 3-8F;

(12) the south skim cooling enclosure, referred to as emission unit 17, with emissions exhausting to stack 4-8F;

(13) log sawing and lathe operation, referred to as emission unit 31;

(14) the #41 holding furnace, referred to as emission unit 8, with a maximum capacity of 1.2 tons of aluminum per hour and a maximum heat input capacity of 10.0 million Btu per hour, with emissions exhausting to stack 6-8;

Tube Mill

(15) the Lochnivar boiler, referred to as emission unit 90, constructed in 1995, with a maximum heat input capacity of 0.4 million Btu per hour;

(16) the Cleaver brooks boiler, referred to as emission unit 93, constructed in 1975, with a maximum heat input capacity of 2.6 million Btu per hour;

Plant Miscellaneous

(17) the pacific boiler #1, referred to as emission unit 103, constructed in 1940, with a maximum heat input capacity of 2.6 million Btu per hour;

(18) the pacific boiler #2, referred to as emission unit 104, constructed in 1940, with a maximum heat input capacity of 2.6 million Btu per hour;

(19) the box shop sawdust collector exhaust, referred to as emission unit 92, with emissions exhausting to stack 72-57;

(20) the paint shop exhaust, referred to as emission unit 105, with emissions exhausting to stack 85-57; and

(21) the babbit melting furnace, referred to as emission unit 109, with emissions exhausting to stack 81-58.

(22) four (4) Rotoclones, which are mechanical separating devices designed to capture particulate emissions from the sawing, grinding, and working of aluminum pieces. Two rotoclones, one rated at 4000 cfm and the other rated at 1500 cfm, will be installed in extrusion 1. Two rotoclones, each rated at 15,000 cfm, will be installed in extrusion 2.

SECTION D.12 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]	Insignificant Activities
a)	the north skim cooling enclosure, referred to as emission unit 16, with emissions exhausting to stack 3-8F;
b)	the south skim cooling enclosure, referred to as emission unit 17, with emissions exhausting to stack 4-8F;
c)	log sawing and lathe operation, referred to as emission unit 31;
d)	the box shop sawdust collector exhaust, referred to as emission unit 92, with emissions exhausting to stack 74-57;
e)	the paint shop exhaust, referred to as emission unit 105, with emissions exhausting to stack 85-57;
f)	the babbit melting furnace, referred to as emission unit 109, with emissions exhausting to stack 81-58; and
g)	four (4) Rotoclones, which are mechanical separating devices designed to capture particulate emissions from the sawing, grinding, and working of aluminum pieces. Two rotoclones, one rate at 4000 cfm and the other rated at 1500 cfm, will be installed in extrusion 1. Two rotoclones, each rated at 15,000 cfm, will be installed in extrusion 2.

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.12.1 Particulate Matter (PM) [326 IAC 6-3-2 (Process Operations)]

Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from each of the processes listed above shall not exceed allowable PM emission rate based on the following equation:

Interpolation and extrapolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

Compliance Determination Requirements

D.12.2 Testing Requirements [326 IAC 2-7-6(1),(6)]

The Permittee is not required to test these facilities by this permit. However, IDEM may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the PM limit specified in Condition D.12.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.